

# P1XXXX

## VW

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# OBD2 CODE LIST

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Codes	Definition
P1004	Torque Difference Cylinder 1: Limit Value Exceeded
P1005	Torque Difference Cylinder 2: Limit Value Exceeded
P1006	Torque Difference Cylinder 3: Limit Value Exceeded
P1007	Torque Difference Cylinder 4: Limit Value Exceeded
P1009	Air Mass Meter 1/2 Implausible Signal From Load Detection
P1018	Intake Manifold Runner Bank 2 Lower Limit Not Reached
P1020	Fuel pressure - control limit exceeded
P1023	Fuel pressure control valve - short to ground
P1024	Fuel pressure control valve - open circuit
P1025	Fuel pressure control valve - mechanical fault
P1026	Intake manifold air control solenoid - short to positive
P1027	Intake manifold air control solenoid - short to ground
P1028	Intake manifold air control solenoid - open circuit
P1029	Intake manifold air control valve position sensor - upper limit not reached
P1030	Intake manifold air control valve position sensor - lower limit not reached
P1031	Intake manifold air control valve position sensor - specification not attained
P1032	Nitrogen oxides (NOx) sensor - signal too high
P1033	Nitrogen oxides (NOx) sensor - signal too low
P1034	Nitrogen oxides (NOx) sensor - signal outside tolerance
P1035	Nitrogen oxides (NOx) sensor - range/ performance problem
P1036	Nitrogen oxides (NOx) heater sensor - short to positive
P1037	Nitrogen oxides (NOx) heater sensor - short to ground
P1038	Nitrogen oxides (NOx) heater sensor - open circuit
P1039	Injector 1, supply voltage - short circuit
P1040	Injector 1, supply voltage - circuit malfunction
P1041	Injector 2, supply voltage - short circuit

P1042	Injector 2, supply voltage - circuit malfunction
P1043	Injector 3, supply voltage - short circuit
P1044	Injector 3, supply voltage - circuit malfunction
P1045	Injector 4, supply voltage - short circuit
P1046	Injector 4, supply voltage - circuit malfunction
P1047	Camshaft position (CMP) actuator, exhaust - circuit malfunction
P1048	Camshaft position (CMP) actuator, exhaust - short to positive
P1049	Camshaft position (CMP) actuator, exhaust - short to ground
P1050	Camshaft position (CMP) actuator, exhaust - open circuit
P1055	Bank 1 Camshaft Adjustment Short To B+
P1056	Bank 1 Camshaft Adjustment Short To Ground
P1057	Bank 1 Camshaft Adjustment Short To Open Circuit
P1063	Fuel pressure - control limit not reached
P1064	Fuel pressure - mechanical fault
P1065	Fuel pressure - system deviation
P1066	Intake manifold air control solenoid - short to positive
P1067	Intake manifold air control solenoid - short to ground
P1068	Intake manifold air control solenoid - open circuit
P1069	Nitrogen oxides (NOx) sensor - heater control - short to ground
P1070	Nitrogen oxides (NOx) sensor - heater control - short to positive
P1071	Nitrogen oxides (NOx) sensor - heater control - incorrect signal
P1072	Nitrogen oxides (NOx) sensor - heater control - circuit malfunction
P1073	Mass Air Flow Sensor 2 Signal Too Small
P1074	Mass Air Flow Sensor 2 Signal Too Large

P1081	Exhaust Bank 3- Mixture Adaption Range 1 Lower Lean Limit Not Reached
P1082	Exhaust Bank 3- Mixture Adaption Range 2 Lower Lean Limit Not Reached
P1083	Exhaust Bank 3- Mixture Adaption Range 1 Lower Rich Limit Not Reached
P1084	Exhaust Bank 3- Mixture Adaption Range 2 Lower Rich Limit Not Reached
P1085	Exhaust Bank 4- Mixture Adaption Range 1 Lower Lean Limit Not Reached
P1086	Exhaust Bank 4- Mixture Adaption Range 2 Lower Lean Limit Not Reached
P1087	Exhaust Bank 4- Mixture Adaption Range 1 Lower Rich Limit Not Reached
P1088	Exhaust Bank 4- Mixture Adaption Range 2 Lower Rich Limit Not Reached
P1093	Mixture control (MC), malfunction
P1100	HO2S12 Sensor Circuit Voltage Too Low Air Leak
P1101	Heated oxygen sensor (HO2S) low voltage
P1102	Heated oxygen sensor (HO2S) heater short to positive
P1103	Heated oxygen sensor (HO2S) heater output too low
P1104	HO2S12 Sensor Circuit Voltage Too Low Air Leak
P1105	Heated oxygen sensor (HO2S) heater short to positive
P1106	Heated oxygen sensor (HO2S) low voltage/air leak
P1107	Heated oxygen sensor (HO2S) heater short to positive
P1108	O2 Sensor Circ.,Bank1-Sensor1Voltage too Low/Air Leak
P1109	HO2S22 Sensor Circuit Voltage Too Low Air Leak
P1110	Heated oxygen sensor (HO2S) heater short to positive
P1111	Heated oxygen sensor (HO2S) control, system too lean
P1112	Heated oxygen sensor (HO2S) control, system too rich
P1113	Heated oxygen sensor (HO2S) heater resistance too high
P1114	Heated oxygen sensor (HO2S) heater resistance too high

P1115	Heated oxygen sensor (HO2S) heater short to ground
P1116	Heated oxygen sensor (HO2S) heater open circuit
P1117	Heated oxygen sensor (HO2S) heater short to ground
P1118	Heated oxygen sensor (HO2S) heater open circuit
P1119	Heated oxygen sensor (HO2S) heater short to ground
P1120	Heated oxygen sensor (HO2S) heater open circuit
P1121	Heated oxygen sensor (HO2S) heater short to ground
P1122	Heated oxygen sensor (HO2S) heater open circuit
P1123	Long Term Fuel Trim Adjustment Bank 1 System Too Rich
P1124	Long Term Fuel Trim Adjustment Bank 1 System Too Lean
P1125	Long Term Fuel Trim Adjustment Bank 2 System Too Rich
P1126	Long Term Fuel Trim Adjustment Bank 2 System Too Lean
P1127	Long term fuel trim, system too rich
P1128	Long term fuel trim, system too lean
P1129	Long term fuel trim, system too rich
P1130	Long term fuel trim, system too lean
P1131	HO2S21 Inner Resistance Too Large
P1132	Heated oxygen sensor (HO2S) heater control - circuit high
P1133	Heated oxygen sensor (HO2S) heater control - circuit low
P1134	HO2S Heater Circuit- Bank 1 & 2 Sensor 2 Short To B+
P1135	HO2S Heater Circuit- Bank 1 & 2 Sensor 2 Electrical Malfunction
P1136	Long term fuel trim, idling, system too lean
P1137	Long term fuel trim, idling, system too rich
P1138	Long term fuel trim, idling, system too lean
P1139	Long term fuel trim, idling, system too rich
P1140	Heated oxygen sensor (HO2S) heater resistance too high
P1141	Load calculation - implausible value
P1142	Load calculation - too low
P1143	Load calculation - too high

P1144	Mass air flow (MAF) sensor - open circuit/ short to ground
P1145	Mass air flow (MAF) sensor - short to positive
P1146	Mass air flow (MAF) sensor - supply voltage
P1147	Heated oxygen sensor lambda regulation, system too lean
P1148	Heated oxygen sensor lambda regulation, system too rich
P1149	Heated oxygen sensor (HO2S) implausible lambda control value
P1150	Heated oxygen sensor (HO2S) implausible lambda control value
P1151	Long term fuel trim below lean limit
P1152	Long term fuel trim below lean limit
P1153	Heated oxygen sensor (HO2S) interchanged
P1154	Manifold Switch Over Malfunction
P1155	Manifold absolute pressure (MAP) sensor - short to positive
P1156	Manifold absolute pressure (MAP) sensor - open circuit/short to ground
P1157	Manifold absolute pressure (MAP) sensor - supply voltage
P1158	Manifold absolute pressure (MAP) sensor - range/performance problem
P1159	Mass air flow (MAF) sensor, implausible ratio
P1160	Intake air temperature (IAT) sensor - short to ground
P1161	Intake air temperature (IAT) sensor - open circuit/short to positive
P1162	Fuel temperature sensor - short to ground
P1163	Fuel temperature sensor - open circuit/short to positive
P1164	Fuel temperature sensor - range/ performance problem
P1165	Long term fuel trim above rich limit
P1166	Long term fuel trim above rich limit
P1167	Mass Air Flow Sensor 2 Unplausible Signal
P1171	Throttle motor position sensor 2 - range/ performance problem

P1172	Throttle motor position sensor 2 - low input
P1173	Throttle motor position sensor 2 - high input
P1174	Fuel measurement system, injection timing incorrect
P1175	Pre-Injection Switched Off
P1176	Lambda correction after catalyst, control limit reached
P1177	Lambda correction after catalyst, control limit reached
P1178	Heated oxygen sensor (HO2S) pump current - open circuit
P1179	Heated oxygen sensor (HO2S) pump current - short to ground
P1180	Heated oxygen sensor (HO2S) pump current - short to positive
P1181	Heated oxygen sensor (HO2S) reference voltage - open circuit
P1182	Heated oxygen sensor (HO2S) reference voltage - short to ground
P1183	Heated oxygen sensor (HO2S) reference voltage - short to positive
P1184	Linear Oxygen Sensor Common Ground Open Circuit
P1185	Linear Oxygen Sensor Common Ground Short To Ground
P1186	Linear Oxygen Sensor Common Ground Short To Positive
P1187	Heated oxygen sensor (HO2S) circuit malfunction
P1188	Linear O2 Sensor Compensation Resistor Short to Ground
P1189	Linear O2 Sensor Compensation Resistor Short to B+
P1190	Heated oxygen sensor (HO2S) reference voltage - range/performance problem
P1191	Heated oxygen sensor (HO2S) interchanged
P1192	Fuel pressure sensor - supply voltage
P1193	Fuel pressure sensor - open circuit/short to positive
P1194	Fuel pressure control valve - short to positive
P1196	Heated oxygen sensor (HO2S) heater circuit malfunction
P1197	Heated oxygen sensor (HO2S) heater circuit malfunction

P1198	Heated oxygen sensor (HO2S) heater circuit malfunction
P1199	Heated oxygen sensor (HO2S) heater circuit malfunction
P1200	Turbocharger Recirculating Valve Mechanical Malfunction
P1201	Injector 1 - circuit malfunction
P1202	Injector 2 - circuit malfunction
P1203	Injector 3 - circuit malfunction
P1204	Injector 4 - circuit malfunction
P1205	Injector 5 - circuit malfunction
P1206	Injector 6 - circuit malfunction
P1207	Fuel Injector Circuit Cylinder 7 Electrical Malfunction
P1208	Fuel Injector Circuit Cylinder 8 Electrical Malfunction
P1209	Intake Valves For Cylinder Shut Off Short Circuit To Ground
P1210	Intake Valves For Cylinder Shut Off Short to B+
P1211	Intake Valves For Cylinder Shut Off Open Circuit
P1213	Injector 1 - short to positive
P1214	Injector 2 - short to positive
P1215	Injector 3 - short to positive
P1216	Injector 4 - short to positive
P1217	Injector 5 - short to positive
P1218	Injector 6 - short to positive
P1219	Injector Circuit Cylinder 7 Short To Positive
P1220	Injector Circuit Cylinder 8 Short To Positive
P1221	Cylinder Shut Off Exhaust Valves Short Circuit To Ground
P1222	Cylinder Shut Off Exhaust Valves Short To B+
P1223	Cylinder Shut Off Exhaust Valves Open Circuit
P1225	Injector 1 - short to ground
P1226	Injector 2 - short to ground
P1227	Injector 3 - short to ground
P1228	Injector 4 - short to ground
P1229	Injector 5 - short to ground

P1230	Injector 6 - short to ground
P1231	Injector Circuit Cylinder 7 Short To Ground
P1232	Injector Circuit Cylinder 8 Short To Ground
P1237	Injector 1 - open circuit
P1238	Injector 2 - open circuit
P1239	Injector 3 - open circuit
P1240	Injector 4 - open circuit
P1241	Injector 5 - open circuit
P1242	Injector 6 - open circuit
P1243	Injector Circuit Open Cylinder 7
P1244	Injector Circuit Open Cylinder 8
P1245	Injector needle lift sensor - short to ground
P1246	Injector needle lift sensor - range/ performance problem
P1247	Injector needle lift sensor - open circuit/ short to positive
P1248	Start of injection - control difference
P1249	Fuel Consumption Signal Electrical Fault In Circuit
P1250	Fuel tank level sensor - low input
P1251	Fuel injection timing solenoid - short to positive
P1252	Fuel injection timing solenoid - open circuit/ short to ground
P1253	Instrument panel, fuel consumption signal - short to ground
P1254	Instrument panel, fuel consumption signal - short to positive
P1255	Engine coolant temperature (ECT) sensor - short to ground
P1256	Engine coolant temperature (ECT) sensor - open circuit/short to positive
P1257	Engine Coolant System Valve Open
P1258	Engine Coolant System Valve Short To B+
P1259	Engine Coolant System Valve Short To Ground
P1260	Injector 1 - implausible signal

P1261	Injector 1 - control limit exceeded
P1262	Injector 1 - control limit not reached
P1263	Injector 2 - implausible signal
P1264	Injector 2 - control limit exceeded
P1265	Injector 2 - control limit not reached
P1266	Injector 3 - implausible signal
P1267	Injector 3 - control limit exceeded
P1268	Injector 3 - control limit not reached
P1269	Injector 4 - implausible signal
P1270	Injector 4 - control limit exceeded
P1271	Injector 4 - control limit not reached
P1278	Fuel metering solenoid - short to positive
P1279	Fuel metering solenoid - open circuit/short to ground
P1280	Fuel Injection Air Control Valve Circuit Flow Too Low
P1281	Fuel metering solenoid - short to ground
P1282	Fuel metering solenoid - open circuit
P1283	O2 Sensor Heating Circ.,Bank1-Sensor1 Short to B+
P1284	Fuel Injection Air Control Valve Circuit Open
P1285	Fuel Injection Air Control Valve Circuit Short To Ground
P1286	Fuel Injection Air Control Valve Circuit Short To B+
P1287	Turbocharger (TC) bypass valve - open circuit
P1288	Turbocharger (TC) bypass valve - short to positive
P1289	Turbocharger (TC) bypass valve - short to ground
P1290	Engine coolant temperature (ECT) sensor, ECM controlled cooling system - high input
P1291	Engine coolant temperature (ECT) sensor, ECM controlled cooling system - high input
P1292	Engine coolant thermostat - open circuit
P1293	Engine coolant thermostat - short to positive
P1294	Engine coolant thermostat - short to ground
P1295	Turbocharger (TC), bypass - flow malfunction

P1296	Engine cooling system - malfunction
P1297	Turbocharger (TC)/throttle valve, hose connection - pressure loss
P1299	Fuel metering solenoid - circuit malfunction
P1300	Random/multiple cylinder(s) - misfire detected
P1319	Knock Sensor 1 Circuit Short To Ground
P1320	Knock Sensor 2 Circuit Short To Ground
P1321	Knock Sensor 3 Signal Too Low
P1322	Knock Sensor 3 Signal Too High
P1323	Knock Sensor 4 Signal Too Low
P1324	Knock Sensor 4 Signal Too Low
P1325	Knock control, cylinder 1 - control limit reached
P1326	Knock control, cylinder 2 - control limit reached
P1327	Knock control, cylinder 3 - control limit reached
P1328	Knock control, cylinder 4 - control limit reached
P1329	Knock control, cylinder 5 - control limit reached
P1330	Knock control, cylinder 6 - control limit reached
P1331	Cylinder 7 Knock Control Limit Attained
P1332	Cylinder 8 Knock Control Limit Attained
P1335	Engine torque control - limit reached
P1336	Engine torque monitoring - control limit exceeded
P1337	Camshaft position (CMP) sensor, short to ground
P1338	Camshaft position (CMP) sensor, open circuit/short to positive
P1339	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - interchanged
P1340	Camshaft position (CMP) crankshaft position (CKP) sensor - out of sequence
P1341	Ignition amplifier, primary circuit 1 - short to ground
P1342	Ignition amplifier, primary circuit 1 - short to positive
P1343	Ignition amplifier, primary circuit 2 - short to ground

P1344	Ignition amplifier, primary circuit 2 - short to positive
P1345	Ignition amplifier, primary circuit 3 - short to ground
P1346	Ignition amplifier, primary circuit 3 - short to positive
P1347	Camshaft position (CMP) crankshaft position (CKP) sensor - out of sequence
P1348	Ignition amplifier, primary circuit 1 - open circuit
P1349	Ignition amplifier, primary circuit 2 - open circuit
P1350	Ignition amplifier, primary circuit 3 - open circuit
P1351	Camshaft position (CMP) sensor, range/performance problem
P1354	Fuel quantity adjuster position sensor
P1355	Ignition coil/amplifier, cylinder 1 - open circuit
P1356	Ignition coil/amplifier, cylinder 1 - short to positive
P1357	Ignition coil/amplifier, cylinder 1 - short to ground
P1358	Ignition coil/amplifier, cylinder 2 - open circuit
P1359	Ignition coil/amplifier, cylinder 2 - short to positive
P1360	Ignition coil/amplifier, cylinder 2 - short to ground
P1361	Ignition coil/amplifier, cylinder 3 - open circuit
P1362	Ignition coil/amplifier, cylinder 3 - short to positive
P1363	Ignition coil/amplifier, cylinder 3 - short to ground
P1364	Ignition coil/amplifier, cylinder 4 - open circuit
P1365	Ignition coil/amplifier, cylinder 4 - short to positive
P1366	Ignition coil/amplifier, cylinder 4 - short to ground
P1367	Ignition coil/amplifier, cylinder 5 - open circuit
P1368	Ignition coil/amplifier, cylinder 5 - short to positive
P1369	Ignition coil/amplifier, cylinder 5 - short to ground
P1370	Ignition coil/amplifier, cylinder 6 - open circuit
P1371	Ignition coil/amplifier, cylinder 6 - short to positive
P1372	Ignition coil/amplifier, cylinder 6 - short to ground
P1373	Cylinder 7 Ignition Circuit Open
P1374	Cylinder 7 Ignition Circuit Short To B+

P1375	Cylinder 7 Ignition Circuit Short To Ground
P1376	Cylinder 8 Ignition Circuit Open
P1377	Cylinder 8 Ignition Circuit Short To B+
P1378	Cylinder 8 Ignition Circuit Short To Ground
P1385	Engine control module (ECM) - defective
P1386	Engine control module (ECM), knock control - defective
P1387	Engine control module (ECM), BARO sensor - defective
P1388	Engine control module (ECM), ETS - defective
P1389	Engine Control Module 2 Defective
P1391	Camshaft position (CMP) short to ground
P1392	Camshaft position (CMP) open circuit/short to positive
P1393	Ignition amplifier, primary circuit 1 - circuit malfunction
P1394	Ignition amplifier, primary circuit 2 - circuit malfunction
P1395	Ignition amplifier, primary circuit 3 - circuit malfunction
P1396	Engine Speed Sensor Missing Tooth
P1397	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - control limit reached
P1398	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - short to ground
P1399	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - short to positive
P1400	Exhaust gas recirculation (EGR) valve/ solenoid, circuit malfunction
P1401	Exhaust gas recirculation (EGR) valve/ solenoid, short to ground
P1402	Exhaust gas recirculation (EGR) valve/ solenoid, short to positive
P1403	Exhaust gas recirculation (EGR) system - control difference
P1404	Exhaust gas recirculation (EGR) system - basic setting
P1406	EGR Temperature Sensor Signal Range Performance

P1407	Exhaust gas recirculation temperature (EGRT) sensor - low input
P1408	Exhaust gas recirculation temperature (EGRT) sensor - high input
P1409	Evaporative emission (EVAP) canister purge valve - circuit malfunction
P1410	Evaporative emission (EVAP) canister purge valve - short to positive
P1411	Secondary air injection (AIR) system, insufficient flow detected
P1412	EGR Differential Pressure Sensor Signal Too Low
P1413	EGR Differential Pressure Sensor Signal Too High
P1414	Secondary air injection (AIR) system, leak detected
P1415	Exhaust gas recirculation (EGR) valve position sensor - lower limit exceeded
P1416	Exhaust gas recirculation (EGR) valve position sensor - upper limit exceeded
P1417	Fuel Level Sensor Circuit Signal Too Low
P1418	Fuel Level Sensor Circuit Signal Too High
P1420	Secondary air injection (AIR) valve/ solenoid - circuit malfunction
P1421	Secondary air injection (AIR) valve/ solenoid - short to ground
P1422	Secondary air injection (AIR) valve/ solenoid - short to positive
P1423	Secondary air injection (AIR) system, insufficient flow detected
P1424	Secondary air injection (AIR) system, leak detected
P1425	Evaporative emission (EVAP) canister purge valve - short to ground
P1426	Evaporative emission (EVAP) canister purge valve - open circuit

P1427	Vacuum pump, brakes - short to positive
P1428	Vacuum pump, brakes - short to ground
P1429	Vacuum pump, brakes - open circuit
P1430	Vacuum pump, brakes - open circuit/short to positive
P1431	Vacuum pump, brakes - open circuit/short to ground
P1432	Secondary air injection (AIR) valve/ solenoid - open circuit
P1433	Secondary air injection (AIR) pump relay - open circuit
P1434	Secondary air injection (AIR) pump relay - short to positive
P1435	Secondary air injection (AIR) pump relay - short to ground
P1436	Secondary air injection (AIR) pump relay - circuit malfunction
P1437	Exhaust gas recirculation (EGR) valve/ solenoid, short to positive
P1438	Exhaust gas recirculation (EGR) valve/ solenoid, open circuit/short to ground
P1439	Exhaust gas recirculation (EGR) valve position sensor - basic setting
P1440	Exhaust gas recirculation (EGR) valve - open circuit
P1441	Exhaust gas recirculation (EGR) valve/ solenoid, open circuit/short to ground
P1442	Exhaust gas recirculation (EGR) valve position sensor - high input
P1443	Exhaust gas recirculation (EGR) valve position sensor - low input
P1444	Exhaust gas recirculation (EGR) valve position sensor - range/performance problem
P1445	Catalyst Temperature Sensor 2 Circuit Range/Performance
P1446	Catalyst Temperature Circuit Short To Ground
P1447	Catalyst Temperature Circuit Open/Short to B+
P1448	Catalyst Temperature Sensor 2 Circuit Short to Ground
P1449	Catalyst Temperature Sensor 2 Circuit Open/Short to B+
P1450	Secondary air injection (AIR) system - short to positive

P1451	Secondary air injection (AIR) system - short to ground
P1452	Secondary air injection (AIR) system - open circuit
P1453	Exhaust gas recirculation temperature (EGRT) open circuit/short to positive
P1454	Exhaust gas recirculation temperature (EGRT) short to ground
P1455	Exhaust gas recirculation temperature (EGRT) range/performance problem
P1456	Exhaust gas recirculation temperature (EGRT) control, control limit reached
P1457	Exhaust gas recirculation temperature (EGRT) open circuit/short to positive
P1458	Exhaust gas recirculation temperature (EGRT) short to ground
P1459	Exhaust gas recirculation temperature (EGRT) range/performance problem
P1460	Exhaust gas recirculation temperature (EGRT) control, control limit reached
P1461	Exhaust gas recirculation temperature (EGRT) control, range/ performance problem
P1462	Exhaust gas recirculation temperature (EGRT) control, range/ performance problem
P1465	Additive Pump Short Circuit to B+
P1466	Additive Pump Open/Short to Ground
P1467	EVAP Canister Purge Solenoid Valve Short Circuit to B+
P1468	EVAP Canister Purge Solenoid Valve Short Circuit to Ground
P1469	EVAP Canister Purge Solenoid Valve Open Circuit
P1470	EVAP Control System LDP Circuit Electrical Malfunction
P1471	EVAP Control System LDP Circuit Short to Positive
P1472	EVAP Control System LDP Circuit Short To Ground
P1473	EVAP Control System LDP Open Circuit

P1474	EVAP Canister Purge Solenoid Valve Electrical Malfunction
P1475	EVAP Control System LDP Malfunction/Signal Circuit Open
P1476	EVAP Control System LDP Malfunction/Insufficient Vacuum
P1477	EVAP Control System LDP Malfunction
P1478	EVAP Control System LDP Clamped Tube Detected
P1479	Vacuum system, brakes - mechanical fault
P1482	Secondary Air Injection Pump Relay 2 Short To B+
P1483	Secondary Air Injection Pump Relay 2 Short To Ground
P1484	Secondary Air Injection Pump Relay 2 Electrical Circuit Malfunction
P1489	EVAP Canister Purge Regulator Valve 2 Short To B+
P1490	EVAP Canister Purge Regulator Valve 2 Short To Ground
P1491	EVAP Canister Purge Regulator Valve 2 Open Circuit
P1493	Low Pressure Pump For Brake Power Too Low
P1497	Secondary Air System Bank 3 Flow Fault
P1498	Secondary Air System Bank 4 Flow Fault
P1500	Fuel pump relay - circuit malfunction
P1501	Fuel pump relay - short to ground
P1502	Fuel pump relay - short to positive
P1503	Alternator load signal
P1504	Intake system - leak detected
P1505	Closed throttle position (CTP) switch - does not close
P1506	Closed throttle position (CTP) switch - does not open
P1507	Idle speed control (ISC) - lower limit reached
P1508	Idle speed control (ISC) - upper limit reached
P1509	Idle air control (IAC) valve - circuit malfunction
P1510	Idle air control (IAC) valve - short to positive
P1511	Intake manifold air control solenoid 1 - current circuit
P1512	Intake manifold air control solenoid 1 - short to positive
P1513	Intake manifold air control solenoid 2 - short to positive

P1514	Intake manifold air control solenoid 2 - short to ground
P1515	Intake manifold air control solenoid 1 - short to ground
P1516	Intake manifold air control solenoid 1 - open circuit
P1517	Engine control relay - circuit malfunction
P1518	Engine control relay - short to positive
P1519	Camshaft position (CMP) control, malfunction
P1520	Intake manifold air control solenoid 2 - open circuit
P1521	Intake Manifold Changeover Valve 2 Circuit Electrical Malfunction
P1522	Camshaft position (CMP) control, malfunction
P1523	SRS crash signal received
P1524	Fuel pump relay - open circuit/short to ground
P1525	Camshaft position (CMP) actuator, circuit malfunction
P1526	Camshaft position (CMP) actuator, short to positive
P1527	Camshaft position (CMP) actuator, short to ground
P1528	Camshaft position (CMP) actuator, open circuit
P1529	Camshaft position (CMP) actuator - short to positive
P1530	Camshaft position (CMP) actuator - short to ground
P1531	Camshaft position (CMP) actuator - open circuit
P1532	Idle control - lean running speed below specification
P1533	Camshaft position (CMP) actuator, circuit malfunction
P1534	Camshaft position (CMP) actuator, short to positive
P1535	Camshaft position (CMP) actuator, short to ground
P1536	Camshaft position (CMP) actuator, open circuit
P1537	Fuel shut-off solenoid - malfunction
P1538	Fuel shut-off solenoid - open circuit/short to ground
P1539	Clutch pedal position (CPP) switch - range/ performance problem
P1540	Vehicle speed signal - high input
P1541	Fuel pump relay - open circuit
P1542	Throttle motor position range/ performance problem

P1543	Throttle motor position low input
P1544	Throttle motor position high input
P1545	Throttle valve control - malfunction
P1546	Turbocharger (TC) wastegate regulating valve - short to positive
P1547	Turbocharger (TC) wastegate regulating valve - short to ground
P1548	Turbocharger (TC) wastegate regulating valve - open circuit
P1549	Turbocharger (TC) wastegate regulating valve - open circuit/short to ground
P1550	Turbocharger (TC) pressure - control difference
P1551	Barometric Pressure Sensor Circuit Short to B+
P1552	Barometric Pressure Sensor Circuit Open/Short to Ground
P1553	Manifold absolute pressure (MAP) sensor/ barometric pressure (BARO) sensor - range/performance problem
P1554	Throttle control unit - basic setting conditions
P1555	Turbocharger (TC) pressure - upper limit exceeded
P1556	Turbocharger (TC) pressure - control limit not reached
P1557	Turbocharger (TC) pressure - control limit exceeded
P1558	Idle speed control (ISC) actuator/throttle motor - circuit malfunction
P1559	Throttle control unit - basic setting malfunction
P1560	Maximum engine RPM exceeded
P1561	Fuel quantity adjuster - control difference
P1562	Fuel quantity adjuster - upper stop value
P1563	Fuel quantity adjuster - lower stop value
P1564	Throttle control unit - voltage low during basic setting
P1565	Throttle control unit - lower stop not reached
P1566	AC compressor, load signal - implausible signal

P1567	Load Signal from A/C Compressor No Signal
P1568	Throttle control unit - mechanical fault
P1569	Cruise control master switch
P1570	Engine control module (ECM) - immobilizer active
P1571	Engine mounting control solenoid, short to positive
P1572	Engine mounting control solenoid, short to ground
P1573	Engine mounting control solenoid, open circuit
P1574	O2 Sensor Heating Circ.,Bank1-Sensor1 Output too Low
P1575	Engine mounting control solenoid, short to positive
P1576	Engine mounting control solenoid, short to ground
P1577	Engine mounting control solenoid, open circuit
P1578	Bank1-Sensor2 Voltage too Low/Air Leak
P1579	Throttle control unit - basic setting
P1580	Throttle motor, circuit malfunction
P1581	Throttle control unit - basic setting
P1582	Idle speed adaptation - limit reached
P1583	O2 Sensor Heating Circ.,Bank1-Sensor2 Short to B+
P1584	O2 Sensor Circ.,Bank2-Sensor1 Voltage too Low/Air Leak
P1585	O2 Sensor Heating Circ.,Bank2-Sensor1 Short to B+
P1586	Engine mounting control solenoid, short to positive
P1587	O2 Sensor Heating Circ.,Bank2-Sensor1 Output too Low
P1588	O2 Sensor Circ.,Bank2-Sensor2 Voltage too Low/Air Leak
P1589	AC/heater air temperature control switch - short to ground
P1590	AC/heater air temperature control switch - open circuit
P1592	Barometric pressure (BARO) sensor/ manifold absolute pressure (MAP) sensor - implausible ratio
P1593	Altitude adaption - signal outside tolerance
P1599	Idle control - lean running speed above specification
P1600	Engine control module (ECM) - supply voltage low from ignition switch

P1601	Engine control module (ECM) - supply voltage
P1602	Engine control module (ECM) - supply voltage low from battery
P1603	Engine control module (ECM) - defective
P1604	Engine control module (ECM) - defective
P1605	O2 Sensor Heating Circ.,Bank2-Sensor2 Short to B+
P1606	Rough road signal - circuit malfunction
P1607	O2 Control (Bank 1) System too lean
P1608	Power steering pressure (PSP) switch - circuit malfunction
P1609	Engine control module (ECM) - crash switch-off triggered
P1610	Engine control module (ECM) - defective
P1611	Malfunction indicator lamp (MIL) - short to ground
P1612	Engine control module (ECM) - coding
P1613	Malfunction indicator lamp (MIL) - open circuit/short to positive
P1614	O2 Control (Bank 1) System too rich
P1615	Engine oil temperature (EOT) sensor - range/performance problem
P1616	Glow plug warning lamp - short to positive
P1617	Glow plug warning lamp - open circuit/short to ground
P1618	Glow plug relay - short to positive
P1619	Glow plug relay - open circuit/short to ground
P1620	Instrument panel, ECT signal - open circuit/ short to positive
P1621	Instrument panel, ECT signal - short to ground
P1622	Instrument panel, ECT signal - implausible signal
P1623	CAN data bus - no signal
P1624	Malfunction indicator lamp (MIL) - request signal active
P1625	CAN data bus, TCM - incorrect signal
P1626	CAN data bus, TCM - no signal
P1627	Bank1-Sensor1 Internal Resistance too High

P1628	Bank1-Sensor2 Internal Resistant too High
P1629	CAN data bus, cruise control - no signal
P1630	Accelerator pedal position (APP) low input
P1631	Accelerator pedal position (APP) high input
P1632	Accelerator pedal position (APP) sensor - supply voltage
P1633	Accelerator pedal position (APP) low input
P1634	Accelerator pedal position (APP) high input
P1635	CAN data bus, AC - no signal
P1636	CAN data bus, SRS - no signal
P1637	CAN data bus, electronic CE - no signal
P1638	O2 Sensor Heater Circ.,Bank1-Sensor1 Short to Ground
P1639	Accelerator pedal position (APP) sensor 1/2 - range/performance problem
P1640	Engine control module (ECM) - defective
P1641	O2 Sensor Heater Circ.,Bank1-Sensor1 Open
P1642	SRS control module - system malfunction
P1643	O2 Sensor Heater Circ.,Bank1-Sensor2 Short to Ground
P1644	O2 Sensor Heater Circ.,Bank1-Sensor2 Open
P1645	CAN data bus, 4WD - no signal
P1646	O2 Sensor Heater Circ.,Bank2-Sensor1 Short to Ground
P1647	O2 Sensor Heater Circ.,Bank2-Sensor1 Open
P1648	CAN data bus - defective
P1649	CAN data bus, ABS - no signal
P1650	CAN data bus, instrumentation - no signal
P1651	O2 Sensor Heater Circ.,Bank2-Sensor2 Short to Ground
P1652	Transmission control module (TCM) - system malfunction
P1653	ABS control module - system malfunction
P1654	Instrumentation control module - system malfunction
P1655	O2 Sensor Heater Circ.,Bank2-Sensor2 Open
P1656	AC signal - short to ground

P1657	AC signal - short to positive
P1658	CAN data bus, cruise control - incorrect signal
P1659	Engine coolant blower motor, speed 1 - short to positive
P1660	Engine coolant blower motor, speed 1 - short to ground
P1661	Engine coolant blower motor, speed 2 - short to positive
P1662	Engine coolant blower motor, speed 2 - short to ground
P1663	Injector, activation - short to positive
P1664	Injector, activation - current circuit
P1665	Injector - mechanical fault
P1666	Injector 1 - current circuit
P1667	Injector 2 - current circuit
P1668	Injector 3 - current circuit
P1669	Injector 4 - current circuit
P1672	Engine coolant blower motor, speed 1 - open circuit/short to ground
P1674	CAN data bus, instrumentation - incorrect signal
P1676	ETS warning lamp - circuit malfunction
P1677	ETS warning lamp - short to positive
P1678	ETS warning lamp - short to ground
P1679	ETS warning lamp - open circuit
P1680	Limp-home mode - active
P1681	Engine control module (ECM) - programming incomplete
P1682	CAN data bus, ABS - implausible signal
P1683	CAN data bus, SRS - implausible signal
P1684	Long Term Fuel Trim Add.Air.,Bank1 System too Rich
P1686	Long Term Fuel Trim Add.Air.,Bank1 System too Lean
P1690	Malfunction indicator lamp (MIL) - circuit malfunction
P1691	Malfunction indicator lamp (MIL) - open circuit
P1692	Malfunction indicator lamp (MIL) - short to ground
P1693	Malfunction indicator lamp (MIL) - short to positive

P1694	Long Term Fuel Trim Add.Air.,Bank2 System too Rich
P1696	CAN data bus, steering column electronics - incorrect signal
P1698	Check DTC Memory Of Steering Column ECU
P1704	Long Term Fuel Trim Add.Air.,Bank2 System too Lean
P1705	Long Term Fuel Trim mult.,Bank1 System too Rich
P1711	Long Term Fuel Trim mult.,Bank1 System too Lean
P1716	Long Term Fuel Trim mult.,Bank2 System too Rich
P1721	Long Term Fuel Trim mult.,Bank2 System too Lean
P1723	Bank2-Sensor1 Internal Rsistance too High
P1724	O2 Sensor Heating Circ.,Bank1+2-Sensor1 Short to B+
P1726	O2 Sensor Heating Circ.,Bank1+2-Sensor1 Electrical Malfunction
P1728	O2 Sensor Heating Circ.,Bank1+2-Sensor2 Short to B+
P1729	O2 Sensor Heating Circ.,Bank1+2-Sensor2 Electrical Malfunction
P1733	Long Term Fuel Trim Add.Fuel,Bank1 System too Lean
P1739	Long Term Fuel Trim Add.Fuel,Bank1 System too Rich
P1740	Clutch Temperature Monitoring
P1741	Long Term Fuel Trim Add.Fuel,Bank2 System too Lean
P1742	Long Term Fuel Trim Add.Fuel,Bank2 System too Rich
P1743	Bank2-Sensor2 Internal Resistance too High
P1744	Load Calculation Cross Check Range/Performance
P1745	Load Calculation Cross Check Lower Limit Exceeded
P1746	Load Calculation Cross Check Upper Limit Exceeded
P1747	Mass or Volume Air Flow Circ Open/Short to Ground
P1748	Mass or Volume Air Flow Circ Short to B+
P1749	Mass or Volume Air Flow Circ Supply Malfunction
P1750	O2 Control (Bank 2) System too lean
P1751	O2 Control (Bank 2) System too rich
P1752	O2 Control (Bank 1) Out of range

P1760	O2 Control (Bank 2) Out of range
P1761	Bank1, Long Term Fuel Trim, Range 1 Leanness Lower Limit Exceeded
P1762	Bank1, Long Term Fuel Trim, Range 2 Leanness Lower Limit Exceeded
P1763	Manifold Switch Over Malfunction
P1764	Manifold Abs.Pressure Sensor Circ. Short to B+
P1765	Manifold Abs.Pressure Sensor Circ. Open/Short to Ground
P1766	Manifold Abs.Pressure Sensor Circ. Power Supply Malfunction
P1767	Manifold Abs.Pressure Sensor Circ. Range/Performance
P1768	Manifold Temp.Sensor Circ. Short to Ground
P1769	Manifold Temp.Sensor Circ. Open/Short to B+
P1770	Fuel Temp.Sensor Circ. Short to Ground
P1771	Fuel Temp.Sensor Circ. Open/Short to B+
P1772	Fuel Temperature Sensor Range/Performance/Incorrect Signal
P1773	Bank1, Long Term Fuel Trim, Range 1 Rich Limit Exceeded
P1774	Bank1, Long Term Fuel Trim, Range 2 Rich Limit Exceeded
P1775	Throttle Actuation Potentiometer Sign.2 Range/Performance
P1776	Throttle Actuation Potentiometer Sign.2 Signal too Low
P1777	Throttle Actuation Potentiometer Sign.2 Signal too High
P1778	Fuel Trim, Bank 1 Different injection times
P1781	O2 Correction Behind Catalyst,B1 Limit Attained
P1782	O2 Correction Behind Catalyst,B2 Limit Attained
P1784	Linear O2 Sensor / Pump Current Open Circuit
P1785	Linear O2 Sensor / Pump Current Short to ground
P1786	Linear O2 Sensor / Pump Current Short to B+
P1787	Linear O2 Sensor / Reference Voltage Open Circuit
P1788	Linear O2 Sensor / Reference Voltage Short to ground

P1789	Linear O2 Sensor / Reference Voltage Short to B+
P1790	Linear O2 Sensor / Common Ground Wire Open Circuit
P1791	Linear O2 Sensor / Common Ground Wire Short to ground
P1792	Linear O2 Sensor / Common Ground Wire Short to B+
P1793	Linear O2 Sensor / Compens. Resistor Open Circuit
P1795	Linear O2 Sensor / Compens. Resistor Short to ground
P1796	Linear O2 Sensor / Compens. Resistor Short to B+
P1797	Linear O2 Sensor / Reference Voltage Incorrect Signal
P1798	O2 Sensor Heater Circ.,Bank1-Sensor1 Electrical Malfunction
P1799	O2 Sensor Heater Circ.,Bank2-Sensor1 Electrical Malfunction
P1813	O2 Sensor Heater Circ.,Bank1-Sensor2 Electrical Malfunction
P1814	O2 Sensor Heater Circ.,Bank2-Sensor2 Electrical Malfunction
P1815	Cyl.1-Fuel Inj.Circ. Electrical Malfunction
P1818	Cyl.2-Fuel Inj.Circ. Electrical Malfunction
P1819	Cyl.3-Fuel Inj.Circ. Electrical Malfunction
P1820	Cyl.4-Fuel Inj.Circ. Electrical Malfunction
P1823	Cyl.5-Fuel Inj.Circ. Electrical Malfunction
P1824	Cyl.6-Fuel Inj.Circ. Electrical Malfunction
P1825	Cyl.7-Fuel Inj.Circ. Electrical Malfunction
P1828	Cyl.8-Fuel Inj.Circ. Electrical Malfunction
P1829	Intake valves for cylinder shut-off Short circuit to ground
P1830	Intake valves for cylinder shut-off Short to B+
P1834	Intake valves for cylinder shut-off Open circuit
P1835	Cyl.1-Fuel Inj.Circ. Short to B+
P1841	Cyl.2-Fuel Inj.Circ. Short to B+
P1842	Cyl.3-Fuel Inj.Circ. Short to B+
P1843	Cyl.4-Fuel Inj.Circ. Short to B+

P1844	Cyl.5-Fuel Inj.Circ. Short to B+
P1847	Cyl.6-Fuel Inj.Circ. Short to B+
P1848	Cyl.7-Fuel Inj.Circ. Short to B+
P1849	Cyl.8-Fuel Inj.Circ. Short to B+
P1850	Cylinder shut-off exhaust valves Short circuit to ground
P1851	CAN data bus, ABS - incorrect signal
P1852	Cylinder shut-off exhaust valves Short to B+
P1853	CAN data bus, ABS - incorrect signal
P1854	CAN data bus, ABS - defective
P1855	Cylinder shut-off exhaust valves Open circuit
P1856	Cyl.1-Fuel Inj.Circ. Short to Ground
P1857	Load Signal Error Message From ECU
P1858	Cyl.2-Fuel Inj.Circ. Short to Ground
P1859	Cyl.3-Fuel Inj.Circ. Short to Ground
P1860	Cyl.4-Fuel Inj.Circ. Short to Ground
P1861	Cyl.5-Fuel Inj.Circ. Short to Ground
P1862	Cyl.6-Fuel Inj.Circ. Short to Ground
P1863	Cyl.7-Fuel Inj.Circ. Short to Ground
P1864	Cyl.8-Fuel Inj.Circ. Short to Ground
P1865	Cyl.1-Fuel Inj.Circ. Open Circ.
P1866	Cyl.2-Fuel Inj.Circ. Open Circ.
P1900	Engine coolant blower motor, speed 2 - open circuit/short to ground
P1901	Engine coolant blower motor run-on relay - short to positive
P1902	Engine coolant blower motor run-on relay - open circuit/short to ground
P1903	Engine Coolant Hydraulic Blower Motor Solenoid Short To Positive
P1904	Engine Coolant Hydraulic Blower Motor Solenoid Open Circuit/Short To Ground

P1905	Charge Air Coolant Pump Relay Short To Positive
P1906	Charge Air Coolant Pump Relay Open Circuit/Short To Ground
P1908	Data Bus ECM 1/2 Software Version Monitoring
P1909	Transmission Temperature Sensor Circuit Open or Shorted to Power Or Ground
P1910	Data Bus ECM 1/2 No Signal From ECM
P1911	Data Bus ECM 1/2 Circuit Malfunction
P1912	Brake servo pressure sensor - open circuit/ short to positive
P1913	Brake servo pressure sensor - short to ground
P1914	Brake servo pressure sensor - range/ performance problem
P1920	Engine mounting control solenoid, open circuit/short to ground
P1923	Engine Control Module Malfunction
P1951	Radiator Fan 2 Movement Restricted / Jammed
P1952	Turbocharger Control Module 1 Defective
P1953	Turbocharger Control Module 2 Defective
P1996	Friction Too High Intake Camshaft Adjustment Bank 1
P1997	Friction Too High Exhaust Camshaft Adjustment Bank 1
P1998	Friction Too High Intake Camshaft Adjustment Bank 2
P1999	Friction Too High Exhaust Camshaft Adjustment Bank 2

# Questions? Contact us.



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